

**DII.3025P4.HP1020\_SOL251.UB\_SVD\_1.0**

**Defense Information Infrastructure (DII)  
Common Operating Environment (COE)**

**Software Version Description (SVD)  
for Unified Build (TMS/UCP) Version 3.0.2.5P4**

**HP 10.20/Solaris 2.5.1**

**Document Version 1.0**

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# **1. Scope**

## **1.1 Identification**

This SVD documents Unified Build (UB), Version 3.0.2.5P4. This patch contains corrections to Version 3.0.2.5. See Section 3.3 for details.

UB Version 3.0.2.5P4 is hosted on the following platforms:

- C Hardware: Tactical Advanced Computer, TAC-3 (HP750/755)/TAC-4 (J210)  
Operating System: HP-UX 10.20  
DII COE Kernel: 3.0.1.0 (with P7 patch)
- C Hardware: Sparc 10/20  
Operating System: Solaris 2.5.1  
DII COE Kernel: 3.0.0.3 (with P9 patch)

## **1.2 System Overview**

The Unified Build (UB) is derived from a command and control system originally designed for the afloat Navy—JOTS (Joint Operational Tactical System). As JOTS expanded to meet the needs of both the afloat and ashore Navy-related communities, it was identified as the Unified Build. The present day UB is the result of combining automated Command, Control, Communications, Computers, and Intelligence (C4I) components, Common Operating Environment, and other vital software to fulfill Joint community requirements.

The Unified Build, consisting of the Track Management System (TMS) and the Universal Communications Processor (UCP), forms the core of a C4I system which interfaces to a variety of military communications and computer systems. UB is designed to meet the unique tactical situation assessment, data fusion, and display needs of battle group and force commanders, subordinate warfare commanders, ship commanding officers, and shore command centers.

The UB concept evolved as the result of various C4I initiatives over a period of several years and culminated with the development of a command and control system in which specific applications are built on top of a “superset” of core software. The core software includes track database management, communications interfaces, message processing, track correlation, database management, and tactical display capabilities. A system fielded using UB to provide core services is usually installed on workstations across a local area network (LAN) and a wide area network (WAN), where operators perform certain tasks.

## **1.3 Product Information**

### **Product Qualification**

Test and evaluation (T&E) were performed at the INRI San Diego facility prior to delivery of the software.

## **Product Restrictions**

INRI's intellectual property rights to deliverables defined in this document are covered by the copyright license under the clause in DFARS 252.227-7013 (Nov 1995).

## **Product Dependencies**

This patch is dependent on a properly installed and configured Operating System, Kernel, 3.0.2.5 Application Build. (Note: It is not necessary to install the 3.0.2.5P1, 3.0.2.5P2 or 3.0.2.5P3 patches before installing 3.0.2.5P4. The 3.0.2.5P4 patch includes all 3.0.2.5P1, 3.0.2.5P2 and 3.0.2.5P3 changes.)

## **2. Referenced Documents**

The following documents are referenced elsewhere in this SVD:

### **2.1 Government Documents**

None.

### **2.2 Non-government Documents**

- a. *Installation Procedures (IP) for Unified Build (TMS/UCP) Version 3.0.2.5P4*, (DII.3025P4.HP1020\_SOL251.UB\_IP\_1.0), 19 January 1998.

## **3. Version Description**

### **3.1 Inventory of materials released**

#### **Magnetic media:**

The following unclassified tapes are included in the delivery.

- C UB Version 3.0.2.5P4 Segment on a 4mm DAT cartridge, intended for TAC-3/TAC-4 hardware environment. This segment can be run on DII COE Kernel Version 3.0.1.0 (with patch P7) supporting HP-UX 10.20 Operating System.
- C UB Version 3.0.2.5P4 Segment on an 8mm EXABYTE cartridge, intended for Sparc 10/20 hardware environment. This segment can be run on DII COE Kernel Version 3.0.0.3 (with patch P9) supporting Solaris Operating System Version 2.5.1.

## **Documents:**

For each document listed below, two laser originals and a disk containing a Word Perfect 6.x file accompany the delivery:

- C *Installation Procedures (IP) for Unified Build (TMS/UCP) Version 3.0.2.5P4*, DII.3025P4.HP1020\_SOL251.UB\_IP\_1.0, 19 January 1998.
- C *Software Version Description (SVD) for Unified Build (TMS/UCP) Version 3.0.2.5P4*, DII.3025P4.HP1020\_SOL251.UB\_SVD\_1.0, 19 January 1998.

## **3.2 Inventory of Software Contents**

A listing of all computer libraries and files for Unified Build 3.0.2.5P4 is located in Appendix B.

## **3.3 Changes Installed**

A listing of all software changes incorporated into the software since Unified Build 3.0.2.5P3 is located in Appendix A.

## **3.4 Waivers**

None.

## **3.5 Adaptation Data**

None.

## **3.6 Installation Instructions**

Installation instructions are located in:

- C *Installation Procedures (IP) for Unified Build (TMS/UCP)* [Section 2.2 (a)].

The following configuration is recommended:

- C RAM: 128 MB minimum; 192 optimum
- C Disk space: 2 GB
- C Swap Space: 300 MB

### **3.7 Possible Problems and Known Errors**

A listing of all problems and known errors for Unified Build 3.0.2.5P4 is located in Appendix C.

## **4. Notes**

### **4.1 Acronyms**

C4I	Command, Control, Communications, Computers, and Intelligence
COE	Common Operating Environment
DAT	Digital Audio Tape
DII	Defense Information Infrastructure
DFARS	Defense Federal Acquisition Regulation Supplement
GB	Gigabyte
HP-UX	Hewlett-Packard UNIX-based Operating System
INRI	Inter-National Research Institute, Inc.
IP	Installation Procedures
JOTS	Joint Operational Tactical System
LAN	Local Area Network
MB	Megabyte
RAM	Random Access Memory
STR	Software Test Report
SUM	Software User's Manual
SVD	Software Version Description
T&E	Test and evaluation
TAC-3/TAC-4	Tactical Advanced Computer, Version 3/4
TMS	Tactical Management System
UB	Unified Build
UCP	Universal Communication Processor
WAN	Wide Area Network



## Appendix A: Changes Installed

The following global software problem reports (GSPRs) have been implemented in Unified Build Version 3.0.2.5P4.

### Priority 1

**GSPR Number:** D71330

**AGENCY Number:** None

**INRI Number:** 30200001246

**Short Description:**

MDXBSPROCESS NOT SETTING LINK TRACK TYPE

**Long Description:**

The MDXBSPROCESS does not set the Link track type when converting 2205 tracks into 3025 tracks. There are two symptoms to this problem: 1) the received Link tracks do not correlate to existing Link tracks, and 2) the Link tracks do not display (due also to a different bug where Link tracks without a specific type are not plotted).

**Action:**

Problem corrected. Code added to 2205 conversion routines to handle 3025 track types. Delivered in UB 3.0.2.5P3.

**PRI:** 1

UB/TMS

## Priority 2

**GSPR Number:** D70060

**AGENCY Number:** DU00167

**INRI Number:** 30200000274

**Short Description:**

SYSTEM NOT XMITTING ON RE-ASSOCIATION OF ACOUSTIC TRACK

**Long Description:**

On CT system associate OTH track with an acoustic track. System properly transmitted new posits and Signa sets. Broke association and correct DPOSs are sent. Re-associated same pair but system did not send the update. BGDBM spec violation: withholding data from PT and database divergence. NCTSI CERT issue. Related to UB07296 (but not the same).

**Action:** Removed reports from broadcast history when delete report event occurs. When re-associated, it does not determine that the reports have already been sent.

**PRI:** 2

UB/TMS

**GSPR Number:** D70710

**AGENCY Number:** DU00944

**INRI Number:** 30200001150

**Short Description:**

ATTEMPT TO VIEW ELINT ASSOC FROM PARENT

**Long Description:**

A GOLD message which contains a RADB line and also remarks lines causes the edit track window to core dump when trying to view the ELINT data. When remarks are deleted from the incoming MSG log and then the track reprocessed the ELINT data is available for viewing. Problem only noted on Solaris platform. This problem was verified by Leigh Becker at INRI. Hardware ID: Sun Ultra Operating system: 2.5.1 Software load: v3.0.0.3 & P2/3/4 DII Kernel v3.0.2.5 & P1 UB Core v3.0.2.5 & P1 JMTKV1.0.0.4 C4I Acct Gps v1.0.0.0 COMEXT/MAREXT

**Action:**

Problem corrected by the fix for 30200001112. Parsed the Rcvd Remarks to populate the ELINT Track RTN structure. Modified the Tracks program ELINT Edit window to display the RTNs. All merged TIBS command RTNs will be maintained with merged track. Delivered in UB 3.0.2.5P3.

**PRI:** 2

UB/TMS

**GSPR Number:** D70996**AGENCY Number:** DU00983**INRI Number:** 30200001188**Short Description:**

VIEW ONLY PROFILE ALLOWS OPERATOR TO DELETE A TRACK

**Long Description:**

When the View option is selected for a profile the operator is restricted from manipulating the track database. The delete option is part of that restriction and is correctly implemented everywhere except the individual track edit window. The track edit window contains the option Delete in the pop-up menu and allows the operator to perform a track delete. This is being submitted as a priority 1 problem because there is no workaround. Implementing activity/developer: NRAD hardware ID: HP and Solaris Operating System: 10.20HP 2.5.1Sol Software load: 3.0.0.3 P2-P5 Sol 3.0.1.0 P1-P3 HP UB Core 3.0.2.5 + P1 JMTK 3.0.2.5 + P1.

**Action:**

Problem corrected. Modified the Tracks program edit windows to not allow the rt. pop-up delete entry when the user's role is VIEW only. Delivered in UB 3.0.2.5P3.

**PRI:** 2

UB/TMS

**GSPR Number:** D71002**AGENCY Number:** DU00965**INRI Number:** 30200001187**Short Description:**

NEWTRK FROM ELINT CANDIDATE SELECTION IN EDIT TRACK POP-UP DOESN'T WORK

**Long Description:**

When trying to network an ELINT ambiguity from the candidate selection in the edit track pop-up window, the track is correctly assigned an LTN starting with 'E', but is still labeled an ambiguity, still is identified in the ELINT ambiguity summary, and when OK is selected from the edit window the color of the track returns to the ambiguity default color of purple. HP and Solaris. Software load: HP: Kernel 3.0.1.0 W/P1&2, UB Core 3.0.2.5 W/P1, C4I AcctGrps 1.0.0.4, JMTK 3.0.2.5 W/P1&2. Solaris: Kernel 3.0.0.3 W/P2-5, UB Core 3.0.2.5 W/P1, C4I AcctGrps 1.0.0.4, JMTK 3.0.2.5 WP1.

**Action:**

By inhibiting reactivation of the Track Edit Window following a NU-TRK command from the Candidate Selection Window, we avoid the possibility of re-instating the track's ambiguity status.

**PRI:** 2

UB/TMS

**GSPR Number:** D71036

**AGENCY Number:** TT00003

**INRI Number:** 30200001112

**Short Description:**

FAILURE TO RETAIN RTN DATA WHEN MERGING ELINT TRACKS

**Long Description:**

For ELINT tracks created via TDIMF contact reports, received RTN data is perishable with respect to ELINT compare merge operations. Only the RTN data for the surviving track is retained when two ELINT tracks are combined. Require modification of RTN handling to insure this data element is preserved for all contact reports involved in track merges.

**Action:**

Problem corrected. Parsed the Rcvd Remarks to populate the ELINT Track RTN structure. Modified the Tracks program ELINT Edit window to display the RTNs. All merged TIBS command RTNs will be maintained with merged track. Delivered in UB 3.0.2.5P3.

**PRI:** 2

UB/TMS

**GSPR Number:** D71067**AGENCY Number:** DU00916**INRI Number:** 30200001195**Short Description:**

PARTICIPANT TDP DOES NOT AUTO TRANSMIT

**Long Description:**

Participant TDP does not auto transmit acoustic track/OTH real world track association to FOTC coordinator. When participant TDP associates a acoustic track with a OTH real world track, the participant TDP does not automatically transmit such association to FOTC coordinator. This leads to loss of information, database divergence, and is a BGDBM certification issue. HP-UX 10.20 OS, Kernel 3.0.1.0, JMTK 1.0.0.10, JMCIS Acct. Groups 3.0.2.5 Sol 2.5.1 OS, Kernel 3.0.0.3, JMTK 1.0.0.10, JMCIS Acct. Groups 3.0.2.5

**Action:**

The fix for this STR is included in a project to correct net loading problems caused by track updates from participants within a BGDBM network. This project, "Track Update Guarding", provides control broadcasting of platform track updates which originate from communications sources while in Participant Terminal (PT) mode. The project eliminates many extraneous reports which caused undue net loading, and unsent data which resulted in database divergence between the FOTC and the participants. The project introduces the notion of a "guard" for each communications channel. A PT that is guard on a channel will broadcast all updates from the given channel. The project provides MMI for selecting which channels to enable guard on and the status of guard for all channels. It provides a mechanism for making a channels guard status unmodifiable by the operator. By default, guard status shall be off for all modifiable participants channels. The MMI for the Channel Guard capability consists of a window, "Channel Guard Settings." The window can be accessed from the "FOTC Parameters" window via a right mouse click menu item. The FOTC coordinator's operations will not be affected by the guard capability.

**PRI:** 2

UB/TMS

**GSPR Number:** D71298**AGENCY Number:** DU00849**INRI Number:** 30200001172**Short Description:**

ATO WITH TIME ZONE OTHER THAN ZULU IS NOT PROVIDED FOR OPERATOR ACCESS IN ATO MESSAGE LOG.

**Long Description:**

MIL-STD 6040 defines time included in set PERID to be any time zone from A to Z omit J. ATOs parsed to the ATO message log with PERID other than Z are not listed for operator access. The ATO exists in the /h/data/global/ub/messages/ato directory but are not contained in the ATO message log window, therefore cannot be plotted, searched, etc. Tested on HP-712 S/W load includes TSS 1.0.0.3, Link-11 2.3, UB core 3.0.2.5, JMCIS 3.0.2.5, JMTK 3.0.2.5

**Action:**

ATO with Time Zone other than ZULU is now provided for operator access in ATO Message Log.

**PRI:** 2

UB/UCP

**GSPR Number:** D71299**AGENCY Number:** DU00984**INRI Number:** 30200001189**Short Description:**

FORMAT LINE 1 AND OPSCOMM MESSAGES

**Long Description:**

When transmitting an OPSCOMM message from KL writer, UB places a format line 2 into the header. In format line 1, UB places 'zczcjm0001' into the message header. This corresponds to a record message. OPSCOMM messages should only have a 'zczc0001.' this problem was not in the old JMCIS 2.2 system. Need for change: all record and OPSCOMM messages are transmitted to TACINTEL. TACINTEL uses format line 1 to show if the message is record or OPSCOMM.

**Action:**

CRITIC and OPSCOMM messages will not contain a format line 2. Format line 1 on OPSCOMM messages will not contain the CID. Format line 15 on CRITIC messages will be #9999.

**PRI:** 2

UB/UCP

**GSPR Number:** D71300**AGENCY Number:** DU00985**INRI Number:** 30200001190**Short Description:**

CID/CSN ROUTING INDICATORS

**Long Description:**

Under the Comms edit window, right click and attempt to change the CID/CSN, the system will ask for a 7 character routing indicator. All SCI routers are 6 characters only. Need for change: need to be able to change the r routing indicators to y routing indicators for SCI message processing.

**Action:**

Problem corrected. Now allow 6 or 7 character routing indicators. Delivered in UB 3.0.2.5P3.

**PRI:** 2

UB/UCP

**GSPR Number:** D71314**AGENCY Number:** DU01015**INRI Number:** 30200001243**Short Description:**

GENDUP INTERFACE INSERTING FORMAT LINE IN CRITIC OR508 OPSCOMM MSG

**Long Description:**

When transmitting a critic or 508 OPSCOMM message, GENDUP will place a format line 2 into the message. Critics and OPSCOMM messages do not use a standard format line 2. On the critic message, the ssn must be a 9999. OPSCOMM does not use SSNs.

**Action:**

CRITIC and OPSCOMM messages will not contain a format line 2. Format line 1 on OPSCOMM messages will not contain the CID. Format line 15 on CRITIC messages will be #9999.

**PRI:** 2

UB/UCP

**GSPR Number:** D71329**AGENCY Number:** DU01016**INRI Number:** 30200001244**Short Description:**  
MESSAGE LOGS**Long Description:**

The UB message logs show different information in the format, CLS of message traffic. Outgoing message log shows format as other for all messages, with a CLS of ? for all messages. The incoming message log show format as other for DOI-103, but it'll show critic for critics. The outgoing log will not show critics as critics. The CLS will show as UNK instead of ? as in the outgoing log. The KL\_LOG will show the CLS and format properly, for KL messages. All logs should show the same information in the format and CLS columns. Software load: HP 10.20/DII Kernel 3.0.1.0P1.P2.P3/UB 3.0.2.5P1

**Action:**

Reconciled differences between the ILOG and OLOG CLS field of the Logs. Differences only found in OLOG display of classification.

**PRI:** 2

UB/UCP

**GSPR Number:** D71339**AGENCY Number:** DU01039**INRI Number:** 30200001264**Short Description:**  
NO RESPONSE WHEN SELECTING TRACK CONTROL.**Long Description:**

Unable to access track control under plot control from the chart or from track pop-up menu. When running application by hand, get VWS Error: Cannot open display'. Solaris only.

**Action:**

Initialized attributes before using to eliminate Track Control failure.

**PRI:** 2

UB/TMS



**GSPR Number:** None

**AGENCY Number:** None

**INRI Number:** 30200001236

**Short Description:**

ATOX: "SAVE ATO TO FLOPPY" NEEDS EJECT CAPABILITY.

**Long Description:**

User needs capability to manually eject floppy on Solaris. On HPs, floppy drive typically has an eject button, whereas Solaris does not. Currently, if ATOX user needs to eject manually, without xterm capability, the "paper clip" needs to be used. Consider adding eject to file menu option in main ATO window (at same level as Save to Floppy). Also, when unable to successfully save to floppy, the floppy disk should automatically be ejected for the user,

**Action:**

Added "eject" function at all exit points for Solaris floppy drives. (Sun floppy drives don't have eject buttons). EjectFloppy.scr: (New script) Added a pull-down/pop-up menu option that allows the user to eject a Solaris floppy any time.

**PRI:** 2

UB/UCP

**GSPR Number:** None

**AGENCY Number:** None

**INRI Number:** 30200001237

**Short Description:**

MODIFY BROADCAST MANGER TO XMIT LINK DATA ON SSNC BROADCAST TYPE

**Long Description:**

Modify broadcast manger to xmit link data on SSNC broadcast type. This to support GENSYNC segment.

**Action:**

Added SPI for Tdbm Feed and made new broadcast type for GENSNCR Broadcast.

**PRI:** 2

UB/TMS

**GSPR Number:** None

**AGENCY Number:** None

**INRI Number:** 30200001280

**Short Description:**

SUPPORT FOR A NEW ATO MESSAGE FORMAT

**Long Description:**

TBMCS Ver. 1.0 will be fielded in Sept 98. And it generates ATO message format vice the now supported ATOCONF. Provide interim capability to handle both ATO & ATOCONF using current MMI and ATO database.

**Action:** Implemented a standalone ACO message decoder, based on existing "internal" ACO decoder. Extended ATOCONF field lengths for PRIMARY CONFIG CODE and RECON DATA REQUEST NUMBER. Modified MMI to support future display of ATO messages.

**PRI:** 2

UB/UCP

**GSPR Number:** None

**AGENCY Number:** None

**INRI Number:** 30200001291

**Short Description:**

TDBM CONNECTION OVERFLOW

**Long Description:**

Tdbm can allow one too many connections to itself. If this happens, array bounds could be overwritten with catastrophic results. This problem was uncovered while purifying Tacplot for the critical Tacplot error.

**Action:**

Modified code to accept only maximum number of connections.

**PRI:** 2

UB

## Priority 3

**GSPR Number:** D70291

**AGENCY Number:** DU00777

**INRI Number:** 30200000966

**Short Description:**

BLOCK EDIT OF MESSAGE IN OLOG WHICH HAVE ALREADY BEEN TRANSMITTED.

**Long Description:**

Block edit of message in OLOG which have already been transmitted. Messages in the OLOG which have been transmitted should not be able to be transmitted. If a message in the OLOG which has been transmitted is opened and edited, a new copy of the message should be stored. The original OLOG entry should remain unchanged. HP 10.10.

**Action:**

Problem corrected. Date Time Group now correct on Solaris.

**PRI:** 3

UB/UCP

**GSPR Number:** None

**AGENCY Number:** None

**INRI Number:** 30200001122

**Short Description:**

MSC\_STATUS IS NOT BEING PRESERVED

**Long Description:**

MSC\_STATUS is not being preserved in the following situation: A Platform track (vttrack trk) is created via vtnewtrack in Tdbm. The trk.ptrk.trkstat.MSC\_STATUS was initially set to 3 (fused) before passing track structure to vtnewtrack. Upon creation of the new Platform track, the track is retrieved from Tdbm using vtgettrack to verify the MSC\_STATUS value. MSC\_STATUS should still be 3 (fused); however, the value is 0.

**Action:**

Code modified to not drop the MSC\_STATUS bit on the vtnewtrack API call. Change is in server. No recompile on relink is required.

**PRI:** 3

UB

**GSPR Number:** None

**AGENCY Number:** None

**INRI Number:** 30200001198

**Short Description:**

ATO SAVE TO FLOPPY OPTION DOESN'T WORK ON SOLARIS.

**Long Description:**

ATO Save to Floppy option doesn't work on Solaris. When clicked on the system doesn't appear to access floppy drive. When run by hand receive permission denied.

**Action:**

Problem corrected. Permissions changed in Packages file. Delivered in UB 3.0.2.5P3.

**PRI:** 3

UB/UCP

**GSPR Number:** None

**AGENCY Number:** None

**INRI Number:** 30200001272

**Short Description:**

AN SPI TO RETRIEVE PLOT KEY FROM TDBM TRACKS IS NEEDED

**Long Description:**

An SPI to retrieve plot key from Tdbm tracks is needed to support the TRR segment, I had to extract code from the vtsettrackplotid() function into a separate function, vtgettrackplotkey(). This change is potentially useful to other developers, and is good for code modularity anyway.

**Action:**

Function added to allow the setting of multiple plot keys.

**PRI:** 3

UB

**GSPR Number:** None

**AGENCY Number:** None

**INRI Number:** 30200001287

**Short Description:**

"FALL THROUGH" TRACK EDITOR NEEDED FOR LINK TRACKS

**Long Description:**

When the operator clicks on a Link track, but the corresponding link segment has not been installed, a default edit window should pop-up, giving the operator the basic information on that track (i.e., all the data that is not in the lawdata structure). Passes on HP, fails on Solaris (core dumps).

**Action:**

Fixed editor checks so that if no link editor was available default editor was used for link tracks.

**PRI:** 3

UB

**Priority 4**

None.

**Priority 5**

None.

## Invalid

The following GSPRs were found to be invalid.

**GSPR Number:** D71327

**AGENCY Number:** None

**INRI Number:** 30200001219

**Short Description:**

PROBLEM IN ZX\_LAT\_LNG CONVERSION ROUTINES

**Long Description:**

A problem has been reported on one of the zxll conversion routines. Specifics to be added later.

**Action:**

INVALID. The problem does not duplicate on the UNIX platform. The problem is valid only on NT platforms. Recommend addressing problem if and when an NT port is performed.

**PRI:** 3

UB

**GSPR Number:** D71321

**AGENCY Number:** DU00992

**INRI Number:** 30200001183

**Short Description:**

C2WC COMPONENTS DTA AND TOPO NOT LAUNCHING FROM CHART MENUBAR

**Long Description:**

The DTA and TOPO segments require the directories /h/dta/lib and /h/dta/topo/lib to be included in the environment variable shlib\_path so that their programs can locate shared libraries which they depend on.

Sourcing the file /h/acctgroups/jmcis/scripts/.cshrc.jmcis, the following is the value for shlib\_path:

/h/mhsl/lib:/usr/lib:/usr/dt/lib:/usr/lib/x11r6:/usr/lib/motif1.2\_r6:/

h/c2wc/lib:/h/dta/lib:/h/topo/lib:/h/c2wc/lib. The problem arises when programs are launched from the chart menubar. By dumping the value of shlib\_path passed to programs launched from the chart menubar

by temporarily replacing a launched program with a script which copies the value for shlib\_path to a file, the following value occurs: /h/mhsl/lib:/usr/lib:/usr/dt/lib:/usr/lib/x11r6:/usr/lib/motif1.2\_r6:/h/c2wc/lib

because of the missing components in shlib\_path, the TOPO programs will dump core with an IOT signal which is the signal generated by the dynamic loader when it cannot locate a shared library. Additionally, when the TOPO command is run and the /h/acctgroups/jmcis/scripts/.cshrc.jmcis file sourced, it is appended with :/h/dta/lib:/h/topo/lib:/h/c2wc/lib each time producing an increasing value:

h/mhsl/lib:/usr/lib:/usr/dt/lib:/usr/lib/x11r6:/usr/lib/motif1.2\_r6:/h

/c2wc/lib:/h/dta/lib:/h/topo/lib:/h/c2wc/lib:/h/dta/lib:/h/topo/lib:/h

/c2wc/lib:/h/dta/lib:/h/topo/lib:/h/c2wc/libsubmitted for analysis. Hardware ID: Tac-3 HP-750 operating system: HP-UX 10.20 Software load: UB 3.0.2.5P1, Kernel 3.0.1.0P1-3, JMCIS AcctGrps 3.0.2.6, C2WC 3.0.2.7.

**Action:**

INVALID. Sent to SSCSD to re-test.

**PRI:** 1

UB



**GSPR Number:** D71325**AGENCY Number:** DU01002**INRI Number:** 30200001209**Short Description:**

GOLD MESSAGES XMIT VIA GENBCST NOT BEING DECODED RESULTING LOSS OF DATA

**Long Description:**

(Lab configuration: JOTS1-HP755, JOTS3-HP750, JOTS14-HP750, JOTS19-HP770 all on same LAN). Gold messages sent via GENBCST (19200 baud, serial port) from lab 160 up to lab 260 back up in the ILOG up to as many as 1000 messages and decoding fails after approx 10 minutes of GENBCST comms being turned on. When the gold messages are initially received (after a fresh clean of data files), five prof server processes take the top five positions in the top 25 processes and limit the CPU idle time to 0.0% (these processes are active constantly during GENBCST data flow). Believe the prof server processes to be hindering ICM from parsing gold messages sent via GENBCST. This is potentially a massive loss of data. Software load: HP 10.20/DII COE Kernel 3.0.1.0.P1.P2.P3/UB 3.0.2.5.P1/JMCIS ACCTGRP 3.0.2.6/COMEXT 1.0.0.0/MAREXT 1.0.0.0/PROFSV 3.0.2.10/PROFSA 3.0.2.7/PROFCL 3.0.2.7 (call lab 260 for remaining software load).

**Action:**

INVALID. This is a problem with the PROF server, not with UB.

**PRI:** 1

UB/UCP

**GSPR Number:** D71315**AGENCY Number:** DU01018**INRI Number:** 30200001245**Short Description:**

SECTIONALIZED INCOMING MESSAGES

**Long Description:**

Sectionalize message option should only apply to outgoing messages. Incoming messages should not be sectionalized. Puts in page breaks every 20 lines or splits into multiple messages (up to a maximum of 50 separate messages depending on the size of the message).

**Action:**

INVALID. This STR could not be reproduced at all.

**PRI:** 2

UB/UCP

**GSPR Number:** D71337

**AGENCY Number:** DU01036

**INRI Number:** 30200001262

**Short Description:**

GENDUP FORMAT LINE 1 CUTOFF

**Long Description:**

The GENDUP interface is cutting off format line 1. The 'zcz' in format line one is getting cutoff, it should look like 'zczclex123', once processed by GENDUP, line will be "clex123". You can see the raw data input from the comms window, and see the correct format line is being rec'd, but when the message is in the ILOG, format line one looks like the 'clex123' vice the 'zczclex123'. Have shown this problem to Brian Powers of INRI. Also made a serial line, and messages were processed correctly in the ILOG. Software load: hp 10.20/DII Kernel 3.0.1.0P1.P.P2.P3/UB 3.0.2.5P1

**Action:**

INVALID. This STR is not against INRI software. It was fixed in SAIC software.

**PRI:** 2

UB/UCP

## Open

The following GSPRs are open.

**GSPR Number:** D70439

**AGENCY Number:** DU00705

**INRI Number:** 30200000880

**Short Description:**

PT SEND UNNECESSARY HISTORY POINTS

**Long Description:**

After receiving a merge from the CT-TDP system for one track initiated by the PT-TDP and one track being reported by the CT-TDP system, if the PT-TDP operator adds a history point to the track, all of the history points are broadcast to the CT-TDP system on the FOTC BCST. Only the new history point should be broadcast. This problem causes unnecessary net loading. HP 10.10; Kernel 3.0.0.5. Note: created two tracks on both machines. PT-T1, PT-T2, CT-T1, and CT-T2. Compared PT-T1 to CT-T1 (master) and it fails. Compared CT-T1 to PT-T1 (master) and it passes.

**Action:**

**PRI:** 1

UB/TMS

**GSPR Number:** D70453

**AGENCY Number:** DU00756

**INRI Number:** 30200000945

**Short Description:**

MTST SOLUTION NOT UPDATED ON SCREEN.

**Long Description:**

Description: An air track had a motion model of unknown at the CT and PT PT systems. The CT edited the motion model to air and transmitted this update to the system which accepted the motion model update. However, the PT chart still continued to show the old MTST solution until a new position was received from FOTC approximately 5 minutes later. Also, the PT-TDP operator changed an air tracks motion model from unknown to air, and the screen continued to show the old MTST solution for approximately 5 minutes. Justification: the PT system must immediately update the MTST solution and the result be reflected on chart after a change in the motion model. If this does not occur, an incorrect tactical situation is being displayed. Recommendation: this problem must be corrected prior to certification recommendation. In the interim, the operator should disable DR under attribute toggles for all threats under the air category. HP-UX 10.20; DII COE Kernel 3.0.1.0; DII UB Apps 3.0.2.5.

**Action:**

**PRI:** 2

UB/TMS

**GSPR Number:** D70475**AGENCY Number:** DU00883**INRI Number:** 30200000896**Short Description:**

MERGE WHEN ONE TRACK HAS NOT BEEN XMITTED ON FOTC BCST

**Long Description:**

The CT system held two tracks both with FOTCNTS (T7302 and T7401). One of the tracks (T7041) has not been transmitted yet on the FOTC BCST and was a track received from a PT system (PT system local track number T5093). FOTC merged the two tracks retaining the FOTC track number (T7302) and attributes from the track that had already been transmitted on the FOTC BCST. The FOTC BCST then correctly sent a CTC and POS set for track T7302 and a pair set containing the FOTCTN (T7302) and the local track number of the PT system (T5093). However, there was no MRG set and the PT system did not merge T7302 and local track T5093. Problem justification: ^l data base divergence between the PT and CT systems. The PT system now has an extra track that FOTC has already merged to another track. This problem is caused by not transmitting the T7401 track at least once and then sending a merge set. Also, at the PT system, FOTC SITREP processing does not determine that an extra local track exists. There does not appear to be a viable work around to this problem. Also, the BGDBM specification does not address this situation. Recommendation: document this problem in the operational guidelines. Correct software in the next major release so that the BCST manager looks to determine if the track being merged and subsequently deleted has been sent on the FOTC BCST. If track has not been sent on the BCST previously, then transmit it first, followed by the merge set and the resultant track. Revise BGDBM specification to reflect this change.

**Action:****PRI:** 1

UB/TMS

**GSPR Number:** D70476

**AGENCY Number:** DU00884

**INRI Number:** 30200000897

**Short Description:**

HISTORY POINTS NOT TRANSMITTED

**Long Description:**

The FOTC BCST interval was 1 minute and set to send all data unsent. Data was input from SFMPL into JMCIS through an API. The BCST manager did not consistently send all the history points input by SFMPL to the CT system. The FOTC BCST interval was changed to 4 minutes and similar results were obtained. It is not known if this is a JMCIS BCST manager problem or a problem with how SFMPL is using the API, or a memory management/CPU usage problem caused by SFMPL. This problem may have also occurred in the CCS MK II architecture. Problem justification: data base divergence between the PT and CT system. Recommendation: this problem must be corrected prior to a certification recommendation.

**Action:**

**PRI:** 1

UB/TMS

GSPR Number: D71322

**AGENCY Number:** DU00993

**INRI Number:** 30200001184

**Short Description:**

INCORRECT ICM MLOG EVENT WHEN REPROCESSING A MESSAGE FROM JMCIS ILOG

**Long Description:**

Medal during installation loads its decoders into ^l/h/data/global/ub/decoders. Medal requests, using JMCIS APIs, all messages that passes its decoders. Medal receives all messages and events properly from JMCISS ICM except for manually reprocessed messages. Messages that are manually reprocessed by an operator from a JMCIS ILOG result in ICM sending medal a no\_decoder\_available event instead of a reprocess event. Obviously since medal receives all medal decoder messages, a decoder is available and a reprocess event is the appropriate msg type event. Medals processing depends on the validity of the message events it receives from JMCISS ICM. This is not just a medal problem. Medal is just the first segment to identify this bug. Previous versions of DII (and JMCIS 2.2.0.5) all resulted in a reprocess event when a message was manually reprocessed from the ILOG. Hardware ID: HP 750 Operating System: 10.20 Software load: MCMSEG 6.1.9.0 COE 3.0.1.0 P1,P2,P3.

**Action:**

Did not receive MEDAL segment from SPAWAR/SSC to investigate STR.

**PRI:** 2

UB/UCP

**GSPR Number:** D71326**AGENCY Number:** DU01003**INRI Number:** 30200001210**Short Description:**

COMMUNICATIONS AUTOSTART NOT WORKING CONSISTENTLY

**Long Description:**

The communications window contains an option to autostart selected channels. It has been noted that some channels with the autostart option activated appear to be started (window displays incoming data) however the data is not actually being processed. For example, a NAV-CVN channel was selected for autostart. JOTS1 was taken down to the sysadmin level to view the segment installer window. JOTS1 was then restarted and the NAV-CVN channel displayed as auto on; the window for the channel displayed incoming data, however, own track was not updating (nothing going into history). The channel was stopped and restarted and own track started updating. Software load: UB Core 3.0.2.5 and Patch 1; JMTK 3.0.2.5 and Patch 1; Lk-11 Admin and Interface 3.0.4.2l; JMCIS ACCTGRP 3.0.2.6; COMPRT 3.0.2.6

**Action:**

Observed problem is a result of having an extremely large data base on start up. The problem is very difficult to fix and has only been observed in test environments.

**PRI:** 2

UB/UCP

**GSPR Number:** D71336**AGENCY Number:** DU01023**INRI Number:** 30200001260**Short Description:**

PT-TDP INSTANTLY TRANSMITS EDITED HISTORY POINTS TO CT-TDP FOTC BROADCAST

**Long Description:**

When operator, in participant (PT) mode, edits history point(s) to an existing FOTC OTH track, the updated history point(s) is automatically transmitted to coordinator (CT) on FOTC broadcast. This is in conflict with BGDBM spec Rev.A, section 3.3.1.2. Software load: DII Kernel w/Patch 1-4 3.0.

**Action:****PRI:** 2

UB/TMS

**GSPR Number:** D71338**AGENCY Number:** DU01037**INRI Number:** 30200001263**Short Description:**

ELINT MISCORRELATION

**Long Description:**

The ELINT Correlator appears to have a design or software flaw which can cause miscorrelation. A data set (patreun,stp) consisting of all 10000 ELNOTS was input into the system in the following order; Track 1, RPT1: 031435z,2319n, 14126w,045t,5nm,3nm,1106.9620PRI and 10.36spc. Track 2, RPT1: 031435z, 2319n, 14136w, 045t, 5nm, 3nm, 1550.4278 PRI and 4.265SPC. The initial report on Track1 created a track and the initial report on Track2 created an Ambiguity(1). The 2nd report on Track2 was 031451z, 2315n, 14137w, 045t, 4nm, 3nm, 1550.5180 and 4.203SPC. The 2nd report on Track1 was 031451z, 2315n, 14126w,045t, 5nm, 3nm, 1106.9998 and 10.35SPC. The update to Track2 was miscorrelated to Track1. The update to Track1 created another Ambiguity(2). After manually reprocessing Ambiguity1, it was also miscorrelated to Track1. Ambiguity(2) was then manually reprocessed and it incorrectly fragmented and created a new track. Problem justification; incorrect correlation results. There appears to be two potential problems. First, the initial report on Track2 created an ambiguity even though the tracks were not motion feasible according to MTST since the AOUS did not overlap. When Track1 was compared to the Ambiguity(1), the geo score to update Track1 was .54 and the new track probability was .46. It is not understood why the geo score was so high. Intuitively, it should have been close to zero since the reports were at the same time. A zero geo-score would have probably made the t-score on the new track hypothesis great enough to create a new track. Second, once the ambiguity is created, it is not understood why the 2nd report on Track2 did not update the ambiguity or create a new track instead of updating Track1. The clearly superior candidate was the ambiguity. This would seem to suggest that ambiguities should not necessarily be single point tracks or they should at least be considered in the scoring process. Recommendation; this problem must be corrected in the DII COE release. This problem was verified to exist in the JMCIS 2.2.1, 3.0.0.1, and DII COE 3.0.2.5. Remarks; detailed JPEG images

**Action:****PRI:** 1

UB/TMS



## Other

The following are additional GSPRs.

**GSPR Number:** D71301

**AGENCY Number:** DU00989

**INRI Number:** 30200001191

**Short Description:**

USE OF NIS

**Long Description:**

In order to initialize NIS, both sysadmin (DIICOE segment) and SAM (HP) system administration package require that the C2 features be turned off. Otherwise the system will not allow NIS initialization. JMCIS'98 SSAA requirements dictate that C2 features (e.g., audit, password aging) be active at all times during system operation, regardless of services (NIS, NFS) provided by the system. Software load: JMCIS'98 DT phase 1 baseline.

**Action:**

Fixed in Kernel Patch 5.

**PRI:** 1

UB/COE-OS

**GSPR Number:** D71313

**AGENCY Number:** DU01013

**INRI Number:** 30200001242

**Short Description:**

DNS CLIENT ENABLED

**Long Description:**

When DNS client is turned on JOTS 1, the communication line (ucp\_out) will be disabled. This affects JMHS message transmissions to TACINTEL. Only way to get the communication line working is to disable DNS client. I can have DNS client running on other jots machines and the system will slow down, but ucp\_out will work. Software load: HP 10.20/DII Kernel 3.0.1.0P1.P2.P3/UB 3.0.2.5P1

**Action:**

Fixed in Kernel Patch 5.

**PRI:** 2

UB/UCP

**GSPR Number:** None

**AGENCY Number:** DU00982

**INRI Number:** 30200001267

**Short Description:**

AUDIT CONFIGURATION

**Long Description:**

During DT phase 1, HP 10.20 is configured with the audit mechanism turned off, to avoid running out of disk space due to the large amounts of audit data generated. SSAA requirement # 6.1 dictates that the system shall audit all security relevant actions. Therefore, system configuration procedures must include specific instructions to maintain the audit mechanism on at all times. To avoid creating large amounts of audit data, it is suggested that the system or security administrator configure audit parameters in accordance with the trusted facility manual. Software load: DII COE 3.1 DT phase 1 load. CCB Comments/History 9/24/97 LCCB: Changed type from 'STR' to 'DCP'.

**Action:**

Documentation problem that needs to be addressed by SPAWAR/SSC.

**PRI:** 2

UB/COE-SSO

## Appendix B: Inventory of Software Contents

The following list identifies computer libraries and files for Unified Build 3.0.2.5P4.

Integ/ data/	Scripts/ lib/	SegDescrip/ topdata.global/	bin/ topdata.local/
<b>UB.P4/Integ:</b>			
VSOOutput			
<b>UB.P4/Scripts:</b>			
.Xdefaults.UB*	.cshrc.UB*	.cshrc.dev*	.xsession.UB*
<b>UB.P4/SegDescrip:</b>			
DEINSTALL*	PostInstall*	ReleaseNotes	SegInfo
SegName	VERSION	Validated	
<b>UB.P4/bin:</b>			
Acm*	Aco*	AcoDecoder*	AddVolume*
AlertDaemon*	AlertDispFil*	AlertInterrupt*	AlertLog*
AlertNonInterrupt*	AlertNotifier*	AlertNotify*	AlertReset*
AlertWarn*	Amp*	AmpConfig*	ArchRest*
ArchiveMgr*	Archiver*	Ato*	AtoIE*
AttachTacPlot*	AutoDelete*	AutoForward*	AutoPlotOff*
BSBoolSearchFilters*	BSBoolTracks*	BcstMgr*	BcstStdio*
BinMsgs*	Broadcast*	CITable*	COEHelp*
COEHelpOn*	CP_Warning*	CR1*	CTRL-U*
Calculator*	CecProcess*	CenterTrk*	ChBcst*
ChanStat*	Chart*	ChartDemo*	Collator* Comms*
CommsDec*	CommsWdw*	ConfigSysStat*	Contour*
Contours*	CoordConv*	Countries*	CreateChart*
CustomHistory*	DBSearch*	DDNTimeout*	Datum_Translation*
DecGold*	DecStatus*	Declutter*	DisplayTest*
DrawADRG*	DrawCAC*	DrawContours*	DrawCountries*
Duplex*	EditAen*	EditBcsts*	EditCSDC*
EditChannels*	EditCore*	EditCtc*	EditDlrps*
EditGen*	EditHfdf*	EditRadiosnd*	EditSsn*
EditTarget*	EjectFloppy.scr*	Elevation*	ElintConfig*
ElnotSyn*	ElnotVer*	EmailRecv*	EmailSend*
EmailTable*	ExcFilt*	ExportChart*	Exporter*
ExtractFiles*	FD_FMT*	FIX_X*	FLFormat*
	F_FMT*		
Features*	FileEditor*	FileStats*	FilterView*
FlagThreat*	FollowTrack*	FotcConfig*	FotcSitrep*
Fsck*	GENBCST_OFF*	GENBCST_ON*	GFCP*
GSit*	GenAdmDec*	GenBcst*	GenDuplex*
GeoFilters*	GetBasicIntel*	GoldBdcst*	GoldProcess*
Graphprint*	HDFormat*	HELPBROWSER*	Headers*
Heartbeat*	HelpConvert*	HelpOn*	HelpWait*
HostTable*	Icm*	Importer*	InFotcSum*
InMsgFilters*	Interfaces*	Ireps*	JUnitSyns*
Jotsii*	KermitComms*	LDFormat*	Lattel*
LinkArchive*	LinkStatus*	LoadADRG*	LoadCAC*
LoadRaster*	LogMgr*	MDXBSBdcst*	MDXBSProcess*
MEMORY*	MEMORY.CHK*	MONITOR*	MakeDBDBHdr*
MapList*	MapManager*	MapMgr*	MasterRef*

Mdx*	Mdx2122Process*	MdxCecProcess*	MdxConfig*
MdxGoldBdcst*	MdxGoldProcess*	MdxNet*	MdxNetCfg*
MdxNetTop*	MdxSenProcess*	MdxTrkBdcst*	MdxTrkProcess*
MoBoard*	Monitor*	Mpr*	MsgAckDec*
MsgAlert*	MsgLog*	MsgServ*	NetPing*
NetPrec*	Network*	NickNames*	NipsTdbm*
Notifier*	NrtiComms*	Ocm*	Operations*
Opnotes*	Optionals*	Oto*	OvlyDec*
OwnExtHist*	Pcm*	PifDontCare*	PlotToggles*
Profile*	QueryServer*	QuickZoom*	RFBCTable*
RFNet*	RFNetConfig*	RM.alerts*	RM.all* RM.ato*
RM.ilog-rlog*	RM.maptgls*	RM.olog*	RM.printer*
RM.tdb*	RM.v6tty*	RUN_SysCon*	RadarFuncts*
RangeCircle*	RecallOp*	RegisterAlert*	ReloadMapDirs*
ReloadPath*	RemoveVolume*	ResetServer*	RestartTactPlot*
SA_AcoDecoder*	SECURESCREEN*	SIGeoFilters*	SatDec*
SavePlotCtrls*	ScanTypes*	ScreenAlertFilter*	ScreenAlerts*
ScreenSaver*	SearchFilters*	Sectioner*	SelArea*
SelectFont*	SelectTrack*	Sensors*	SetBackground*
ShipClasses*	SiteControl*	Sites*	SlashTimes*
Sources*	SpatialQuery*	SpecialCtrls*	SsnBcst* Staccs*
StaccsConfig*	StoredAtts*	StuAlert*	StuIII*
StuTable*	SvAtoFloppy.scr*	SymbolLabels*	Synonyms*
SysCon*	SysNetPing*	TD_Converter*	TEXTEDIT*
TOP*	TdaDec*	TdbSearch*	Tdbm*
TdbmDec*	TdbmStatus*	TechData*	Timelate* ToiDB*
ToiReports*	TrackControl*	TrackDBConfig*	
TrackDBConfig.csh*	TrackGroups*	TrackHook*	TrackSymbols*
Tracker*	Tracks*	TreTabular*	TrkBdcst*
TrkProcess*	TrkTotals*	TrksFltrd*	TroubleReport*
TypeHilites*	TypeToggles*	UBChart*	UBInit*
UBRestoreUI*	UBSettings*	UB_NIPSTDBM*	UB_Remount.csh*
UB_RunProg*	UB_SACleanData*	UB_SACleanData.csh*	
UB_SASetWanUid*	UB_SATape*	UnKey*	UnRegisterAlert*
VDD*	VIEWCHANNEL*	VMAIL*	VPFDraw*
VPFSpxQuery*	VPFViewAttributes*	ViewBcst*	ViewChannel*
ViewFile*	ViewIOpnote*	ViewInput*	ViewOlog*
ViewRlog*	Vshow*	WanBcst*	WanPing*
WarnWindow*	Warning*	WriteFiles*	XLOAD*
XRefTable*	XTERM*	XWD*	XWDFULL*
XmitFiles*	import_file*	kermmit*	killTM* los*
mktapedir*	nrti_stdout*	nrti_ui*	pcdir* pcread*
pcwrite*	perspective*	setup*	ship* unzip*
usmc_ovly_xmit_on_off*	vmake*	vpfedit*	vpfload*
wrap_uid*	xcalc*	xlock*	zip*
zipcloak*	zipnote*	zipsplit*	
<b>UB.P4/data:</b>			
DISPLAY/ app-defaults/	Help/	ThreatColor/	VDD/
<b>UB.P4/data/DISPLAY:</b>			
.login.COE	FIX_DISPLAY		
<b>UB.P4/data/Help:</b>			
Aindex	Dindex	HelpMap	Jindex
Pindex	Tindex	UB_UG/	

**UB.P4/data/Help/UB\_UG:**

A/	F/	J/	P/	S/
T/				

**UB.P4/data/Help/UB\_UG/A:**

AirTask.htm	AirTask1.gif	AirTask10.gif	AirTask11.gif
AirTask12.gif	AirTask13.gif	AirTask14.gif	AirTask15.gif
AirTask16.gif	AirTask17.gif	AirTask18.gif	AirTask19.gif
AirTask2.gif	AirTask20.gif	AirTask3.gif	AirTask4.gif
AirTask5.gif	AirTask6.gif	AirTask7.gif	AirTask8.gif
AirTask9.gif			

**UB.P4/data/Help/UB\_UG/F:**

FOTCParm.htm	FOTCParm1.gif	FOTCParm2.gif	FOTCParm3.gif
FOTCParm4.gif	FOTCParm5.gif		

**UB.P4/data/Help/UB\_UG/J:**

JUnit.htm	JUnit1.gif
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**UB.P4/data/Help/UB\_UG/P:**

PIDINknm.htm	PIDINknm1.gif	PIDINknm2.gif	PIDINknm3.gif
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**UB.P4/data/Help/UB\_UG/S:**

SymbLbIs.htm	SymbLbIs1.gif	SymbLbIs2.gif
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**UB.P4/data/Help/UB\_UG/T:**

TrkHook.htm	TrkHook1.gif	TrkHook2.gif	TrkHook3.gif
TrkTbl.htm			

**UB.P4/data/ThreatColor:**

THREATCOLOR\*

**UB.P4/data/VDD:**

add_vdd*	header.html	none.html	remove_vdd*
trailer.html	vdd.html	vdd_ToC.html	

**UB.P4/data/app-defaults:**

JUnitSyms*	NickNames*	TrackHook*
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**UB.P4/lib:**

libDbm.sl*	libGu.sl*	libIm.sl*	libMlib.sl*
libMu.sl*	libServices.sl*	libTM.sl*	libVHelp.sl*
libVids.sl*	libZ.sl*	libZx.sl*	

**UB.P4/topdata.global:**

Decoders/	GDBs/	Messages/
-----------	-------	-----------

**UB.P4/topdata.global/Decoders:**

ACO	ATOMTF	BATHY	BINARYMSG
CASREP	CHGREP	COMSPOT	CRITIC
FOTCSR	FWHISKY	GENADMIN	GLDOPNT
GLDOVLY	GOLDRPT	GPSAMSG	GRIDFLD
INDIGO	JMIEOPNT	JMIERPT	JOTOVLY
JUNITRPT	LOCATOR	LSP	MARREP
MDUMSG	MFUMSG	MOVORD	MOVREP
MSGACK	MUNIT	NUNIT	OBREP

OPSKED	OTHER	PIMTRCK	RAINFRM
RCSATSM	RDSND	RTHRSRQ	RTHRSTA
RTHRTAS	SATCHAR	SATVULN	SCNKILO
SITREP	SMD1MSG	SMD2MSG	SMD3MSG
SUBAMSG	SUBAREQ	SUBNOTE	SUBNREQ
TACELNT	TACREP	TURQUOISE	WEX

**UB.P4/topdata.global/GDBs:**

UB/	UB.2205/
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**UB.P4/topdata.global/GDBs/UB:**

ub_mdxbbs_del.db	ub_mdxbbs_emit.db	ub_mdxbbs_event_hdr.db	ub_mdxbbs_hdr.db
ub_mdxbbs_link.db	ub_mdxbbs_plat.db	ub_mdxbbs_rad.db	ub_mdxbbs_rpt.db
ub_mdxbbs_threat.tbl	ub_mdxbbs_unit.db		

**UB.P4/topdata.global/GDBs/UB.2205:**

ub2205_del.db	ub2205_emit.db	ub2205_event_hdr.db	ub2205_hdr.db
ub2205_link.db	ub2205_plat.db	ub2205_rad.db	ub2205_rpt.db
ub2205_threat.tbl	ub2205_unit.db		

**UB.P4/topdata.global/Messages:**

Mdx/	NonGuard_Interfaces
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**UB.P4/topdata.global/Messages/Mdx:**

Decoders	Encoders	ub2205_decoder.dir
ub2205_del.invmap	ub2205_del.map	ub2205_emit.invmap
ub2205_emit.map	ub2205_encoder.dir	ub2205_event_hdr.invmap
ub2205_hdr.invmap	ub2205_hdr.map	ub2205_link.invmap
ub2205_link.map	ub2205_plat.invmap	ub2205_plat.map
ub2205_rad.invmap	ub2205_rad.map	ub2205_rpt.invmap
ub2205_rpt.map	ub2205_unit.invmap	ub2205_unit.map

**UB.P4/topdata.local:**

System/
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**UB.P4/topdata.local/System:**

TrackProgs	TrackSymbols
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## **Appendix C: Possible Problems and Known Errors**

See the *Software Test Report for Unified Build, Version 3.0.2.5P4*, 19 January 1998.

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